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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/758,391	01/16/2004	Hideo Narita	04853.0110	6069
	22852 7590 05/21/2008 FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER		EXAMINER	
LLP 901 NEW YORK AVENUE, NW			JOYCE, WILLIAM C	
	N, DC 20001-4413		ART UNIT	PAPER NUMBER
			3682	
			MAIL DATE	DELIVERY MODE
			05/21/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Occurrence	10/758,391	NARITA ET AL.				
Office Action Summary	Examiner	Art Unit				
	William C. Joyce	3682				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 1/18/0	08.					
	action is non-final.					
<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-3 and 5-8</u> is/are pending in the application.						
	4a) Of the above claim(s) <u>3 and 5-8</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents	s have been received.					
						
3. Copies of the certified copies of the prior						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P	акт Аррисаноп				
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DETAILED ACTION

This Office Action is in response to the amendment filed January 18, 2008 for the above identified patent application.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hezel (EP 1 129 828) or Larsson (USP 4,904.148) in view of Akeel (USP 5,293,107).

Hezel discloses an articulated robot comprising a plurality of joint arms connected to one another, the rotation axis of the joints being inclined relative to one another. Specifically, a first arm part (2) having a pair of inclined rotation axes (A1, A2) and a second arm part (8) having a pair of inclined rotation axes (A2, A1/1).

Larsson discloses an articulated robot comprising a plurality of joint arms connected to one another, the rotation axis of the joints being inclined relative to one another. Specifically, a first arm part (14) having a pair of inclined rotation axes, a

second arm part (15a) having a pair of inclined rotation axes, and a third arm part (15b) having a pair of inclined rotation axes.

Both Hezel and Larsson fail to teach the claimed motor actuator used to rotate the arm parts around each respective rotation axis. It was well known in the art to use a motor having a shaft and reduction mechanism as claimed for controlling a robotic device. For example, the prior art to Akeel teaches (Figure 1 & 3) a motor and gear arrangement for displacing relatively rotating robotic arm parts. It would have been obvious to one of ordinary skill in the art at the time the invention was made to control the arm parts of either Hezel or Larsson with the motor and speed reduction mechanism of Akeel, motivation being to provide a compact motor with gear arrangement for operating the robot arms at a predetermined speed.

Neither Hezel nor Larsson teach the motor actuators being alternately arranged as defined in claim 4, however Akeel illustrates in Figure 8 a pair of motors (134,136) positioned in a first art part (148), no motors being positioned is an adjacent arm part (15), and a pair of motors (138,140) being positioned in a third arm part. It would have been obvious to one of ordinary skill in the art at the time the invention was made to position the motor actuators of either Hezel or Larsson in an alternate manner, as taught by Akeel, motivation being to provide a compact arrangement while facilitating in the assembly of the device.

Application/Control Number: 10/758,391 Page 4

Art Unit: 3682

Response to Arguments

3. Applicant's arguments filed January 18, 2008 have been fully considered but they are not persuasive.

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, an engineer in the robotic field would recognize the benefits of arranging the actuating motors of a robotic arm in an alternate manner, as illustrated by Akeel, so as to provide a compact arrangement while facilitating in the assembly of the device.

Further Akeel discloses (column 13, lines 32+), a "robot constructed from such simple structural modules and such an integrated rotary robot joint module is easy to maintain and service mechanically and electrically and has a minimum number of simple custom-built parts" and "a robot can be built expeditiously with low manufacturing cost."

Application/Control Number: 10/758,391 Page 5

Art Unit: 3682

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Joyce whose telephone number is (571) 272-7107. The examiner can normally be reached on Monday - Thursday 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on (571) 272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/758,391 Page 6

Art Unit: 3682

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/William C. Joyce/ 5/19/08 Primary Examiner, Art Unit 3682